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Dkt. No. 51320-AA/JPW/SHS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Graham P. Allaway, et al.
Serial No. : 09/724,105
Filed : June 25, 2001
For : USES OF A CHEMOKINE RECEPTOR FOR
INHIBITING HIV-1 INFECTION

1185 Avenue of the Americas
New York, New York 10036
January 9, 2002

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. §1.56, applicants direct the Examiner's attention to the following references which are listed on the PTO-1449 form attached hereto as **Exhibit A**. A copy of below listed reference 54 is attached hereto as **Exhibit 1**.

1. U.S. Patent No. 5,440,021, filed February 25, 1994, issued on August 5, 1995, Anan Chuntharapai, et al.;
2. U.S. Patent No. 5,504,003, filed March 8, 1994, issued April 2, 1996, Haodong Li, et al.;
3. Alkhatib, Ghalb, et al., (1996) "CC CKR5: A RANTES, MIP-1 α , MIP-1 β Receptor as a Fusion Cofactor for Macrophage-Tropic HIV-1", Science 272:1955-1958;
4. Arenzana-Selsdedos, Fernando, et al., (1996) "HIV blocked by chemokine antagonist" Nature 383:400;

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6. Brenner, T.J., et al., (1991) "Relation between HIV-1 syncytium inhibition antibodies and clinical outcome in children", The Lancet, 337:1001-1005;
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8. Cocchi, Florenza, et al., (1995), "Identification of RANTES, MIP-1 α , and MIP-1 β as the Major HIV-Suppressive Factors provided by CD8+ T cells" Science 270:1811-1815;
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17. Klotman, et al., (1995), "Transgenic models of HIV-1", AIDS, 9(4):313-324;
18. Litwin, et al., (1996), "Human Immunodeficiency virus type 1 membrane fusin mediated by a laboratory-adapted strain and a primary isolate analyzed by resonance energy transfer", Journal of Virology 70(9):6437-6441;
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28. Wu, Lijun, et al., (1997), "CCR5 levels and Expression Pattern Correlate With Infectability by Macrophage-tropic HIV-1, In Vitro", J. Exp.Med. 185:1681-1691 ;

29. Zhang, Y.J., et al., (1994)"Structure/Activity Analysis of Human Monocyte Chemoattractant Protein-1 (MCP-1) by Mutagenesis", The Journal of Biological Chemistry 269:15918-15924.;
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34. Eugen-Olsen, J., et al., 1997, Heterozygosity for a deletion in the CKR-5 gene leads to prolonged AIDS-free survival and slower CD4 T=cell decline in a cohort of HIV-seropositive individuals, AIDS 11:305-310.;
35. Stewart, G.J., et al., 1997, Increased Frequency of CCR-5 Δ 32 heterozygotes among long-term non-progressors with HIV-1 infection, AIDS 11:1833-1838.;

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37. U.S. Patent No. 5,021,490, issued June 4, 1991 to Murrier et al;
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41. Doranz et al., (1997), A Small Molecule Inhibitor Directed Against the Chemokine Receptor CXCR4 Prevents Its Use As An HIV-1 Coreceptor, J.Exp.Med. 186 (8):1395-1400;
42. Levy, (1996), Controlling HIV Pathogenesis: The Role of the Noncytotoxic Anti-HIV Response Of CD8+ T Cells. Immunology Today 17:217-224;
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50. Fox, J.L., Biol. Technology. 12:128, February 1994;
51. Haynes, et al., Ann. Med. 28:39-41, 1996;
52. Daar, et al., Proc. Natl. Acad. Sci.U.S.A. 87:6574-6478, 1990;
53. U.S. Patent No. 5,126,433, filed June, 30, 1992, Maddon, et al; and
54. International Publication Number WO 97/47319, International Publication Date December 18, 1997, PCT International Application No. PCT/US97/10619, filed June 13, 1997 (Exhibit 1).

The subject application is a continuation application of U.S. Serial No. 08/874,618, filed June 13, 1997. The above listed references 1-29 were submitted and considered by the United

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States Patent and Trademark Office in an Information Disclosure Statement filed January 4, 1999 in connection with U.S. Serial No.08/874,618. The above listed references 37-45 were submitted to and considered by the United States Patent and Trademark Office in a Supplemental Information Disclosure Statement filed January 19, 2001 in connection with U.S. Serial No. 08/874,618. The above listed references 46-53 were cited in an Office Action issued September 2, 1998 in connection with U.S. Serial No. 08/874,618. The above listed references 30-36 were cited in an Office Action issued November 19, 1999 in connection with U.S. Serial No. 08/874,618. Accordingly, under 37 C.F.R. §1.98(d) copies of these references are not required to be provided to the United States Patent and Trademark Office, since they were previously cited by, or submitted to, the United States Patent and Trademark Office in an application relied upon for an earlier filing date under 35 U.S.C. §120. A copy of the above-listed reference is attached hereto as Exhibit 1.

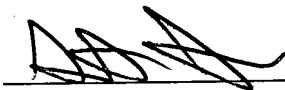
Summary

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone either of them at the number provided below.

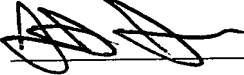
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Pursuant to 37 C.F.R. §1.97(b)(3), no fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any additional fee is required, authorization is hereby given to charge the amount of any such fee to Deposit Account No. 03-3125

Respectfully submitted,



I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

 1-9-02
John P. White Date
Reg. No. 28,678
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	US 5 4 4 0 0 2 1	8/5/94	Chuntharapai, et al			
	US 5 5 0 4 0 0 3	4/2/96	H. Li et al.			
	US 5 0 2 1 4 0 9	6/4/91	Murrer et al.			
	US 5 1 2 6 4 3 3	6/30/92	Maddon, et al.			

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	Alkhatib, Ghalb, et al., (1996) "CC CKR5: A RANTES, MIP-1 α , MIP-1 β Receptor as a Fusion Cofactor for Macrophage-Tropic HIV-1" <i>Science</i> 272:1955-1958;
	Arenzana-Selsdedos, Fernando, et al., (1996) "HIV blocked by chemokine antagonist" <i>Nature</i> 383:400;
	Bleul, Conrad, C., et al., (1996) "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusion and blocks HIV-1 entry" <i>Nature</i> 382:829-832;
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	De Clercq, et al., (1994) "Highly potent and selective inhibition of human immunodeficiency virus by the bicyclam derivative JM3100" <i>Antimicrobial Agents and Chemotherapy</i> 38(4):668-674;
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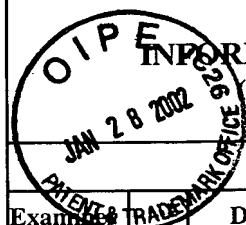
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